

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001623

A. CLASSIFICATION OF SUBJECT MATTER: F 16H 48/04; X-ref: B21J 5/02; B21K 1/26

B. FIELDS SEARCHED: F16H 48/04; F16H 48/12; F16H 48/02; B21J 5/02; B21K 1/26; US 74/650

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched:
Kent's Mechanical Engineers' Handbook, 12 th edition, 1969, chapter 20.

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used): Delphion, Techsource, esp@cenet, key words: differential, gear, die, forming, housing, ring gear, blank.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Kent's Mechanical Handbok, 12th edition, 1969, chapter 20. Plastic Working of Metals.	14 to 22
Y	CA 2,281,242 (BELL, D. et al.) 28 March 2000 (29-04-2000) (whole document)	1 to 22
Y	CA 1,291,866 (YOSHIMURA, K.) 12 November 1991 (12-11-1991) (fig. 14)	1 to 22

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international-type search,
13 January 2005 (13-01-2005)Date of mailing of the international-type search report
01 March 2005 (01-03-2005)

Name and mailing address of the ISA/CA
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2004/001623

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2281242	28-03-2000	AU747570 B2	16-05-2002
		AU4483399 A	30-03-2000
		CA2281242 A1	28-03-2000
		US5989143 A	23-11-1999
CA1291866	12-11-1991	CA1291866 C	12-11-1991
		CN85106696 A	10-04-1986
		JP1769729C C	30-06-1993
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		JP61020642 A	29-01-1986
		KR9208551 B1	01-10-1992
		WO8600549 A1	30-01-1986